

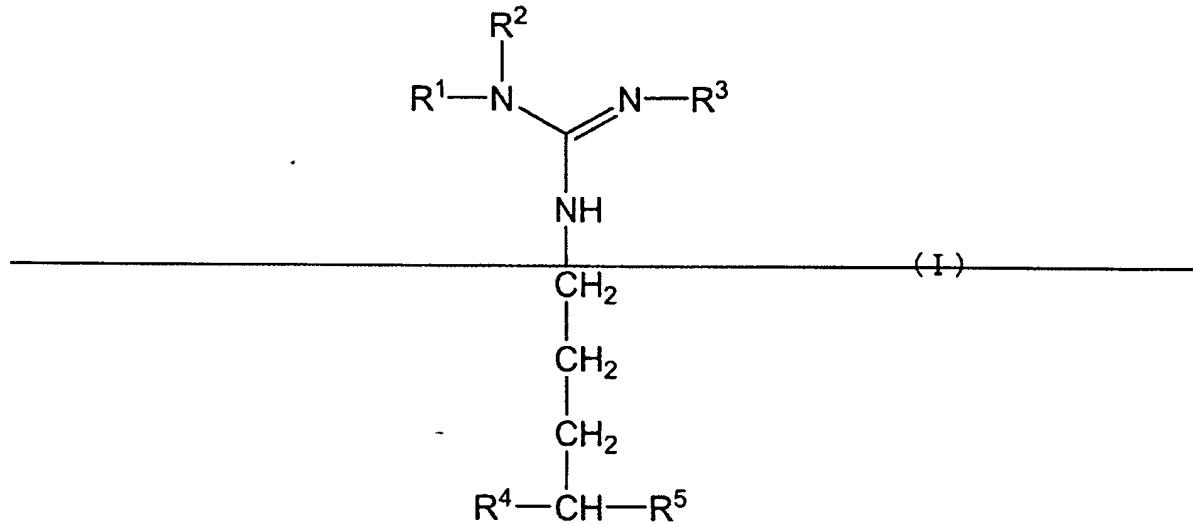
**AMENDMENTS TO THE CLAIMS:**

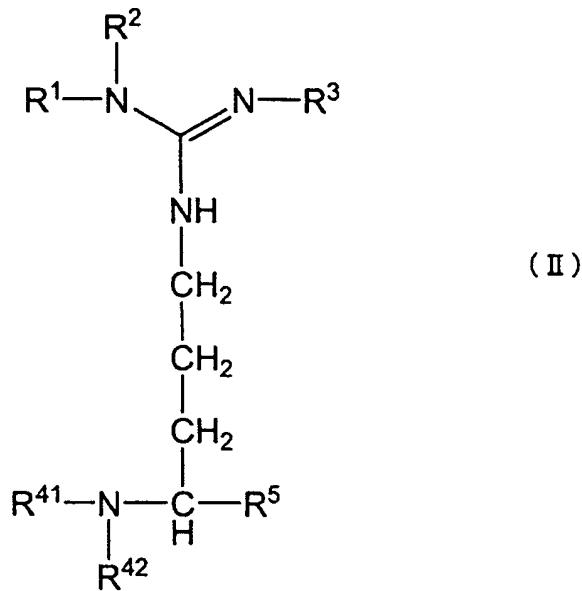
This listing of claims will replace all prior versions and listings of claims in the application:

**The listing of claims**

Claim 1 (currently amended): A compound represented by the general formula  
(I) or a salt thereof:

[Formula 1]





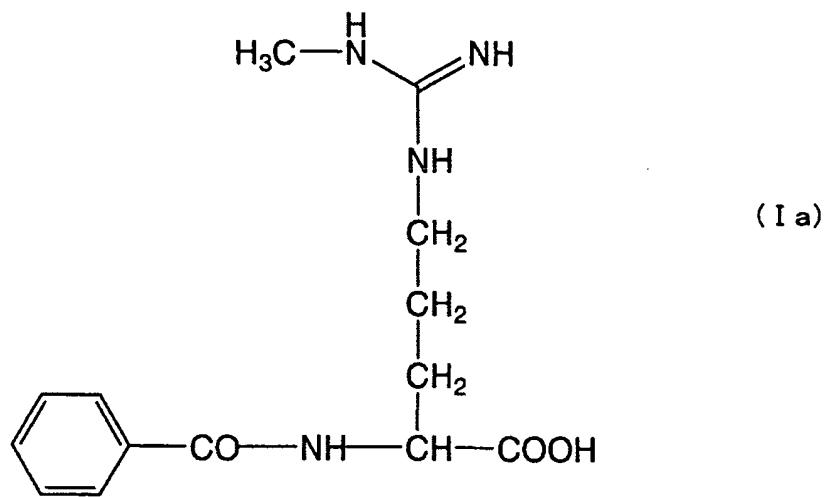
wherein  $\text{R}^1$ ,  $\text{R}^2$  and  $\text{R}^3$  each independently represent a hydrogen atom or an alkyl group having 1 to 3 carbon atoms, provided that at least one of  $\text{R}^1$ ,  $\text{R}^2$  and  $\text{R}^3$  does not represent a hydrogen atom;  $\text{R}^4$  represents an amino group which has a substituent;  $\text{R}^{41}$  represents a group represented by  $\text{R}^{401}\text{CO}-$  where  $\text{R}^{401}$  represents a hydrogen atom, a unsaturated chain a hydrocarbon group which optionally has a substituent, an alicyclic hydrocarbon group which optionally has a substituent, an aromatic hydrocarbon group which optionally has a substituent, or a heterocyclic group which optionally has a substituent, or a group represented by  $\text{R}^{402}\text{S}(\text{O})_m-$  where  $\text{R}^{402}$  represents a hydrogen atom, a hydrocarbon group which optionally has a substituent or a heterocyclic group which optionally has a substituent, and  $m$  is an integer of 1 or 2;  $\text{R}^{42}$  represents a hydrogen atom or an alkyl group having 1 to 3 carbon atoms; and  $\text{R}^5$  represents a carboxyl group which may have optionally has a substituent.

Claim 2 (cancelled).

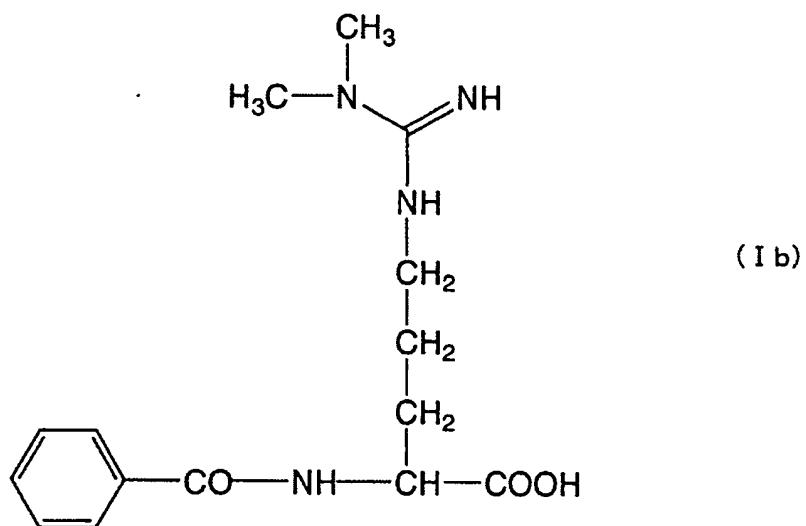
Claim 3 (currently amended): The compound or salt thereof according to Claim 2 1, wherein R<sup>41</sup> represents a benzoyl group which may have optionally has a substituent, a benzoylpeptidyl group which may have optionally has a substituent, a dansyl group which may have optionally has a substituent or a dansylpeptidyl group which may have optionally has a substituent; and R<sup>42</sup> represents a hydrogen atom.

Claim 4 (currently amended): The compound or salt thereof according to any one of Claims 1 to 3 claim 1, wherein R<sup>1</sup>, R<sup>2</sup> and R<sup>3</sup> each independently represent a hydrogen atom or a methyl group, provided that at least one of R<sup>1</sup>, R<sup>2</sup> and R<sup>3</sup> represents a methyl group.

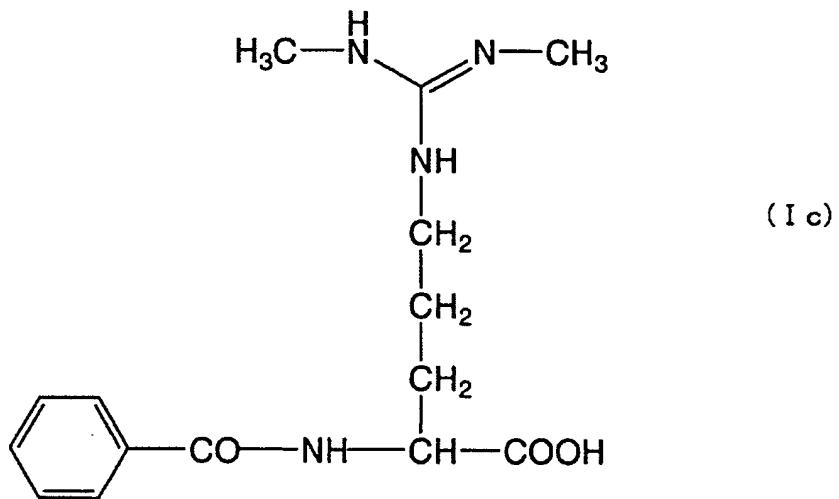
Claim 5 (currently amended): The compound or salt thereof according to Claim 4, which is a compound represented by the formula (Ia), (Ib) or (Ic) or a salt thereof.  
[Formula 3 2]



[Formula 4 3]



[Formula 5-4]

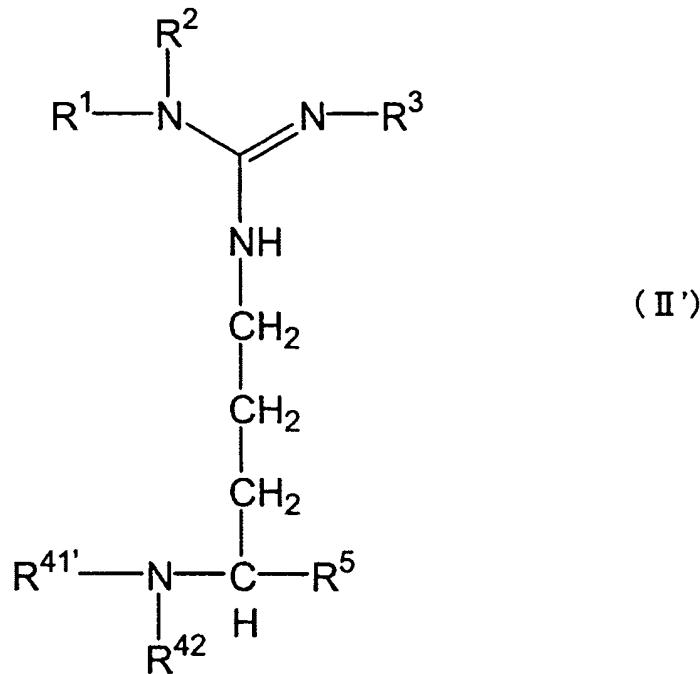


Claim 6 (cancelled).

Claim 7 (cancelled).

Claim 8 (currently amended): A peptidylarginine deiminase 4 inhibitor comprising, as the active ingredient, ~~an arginine derivative having substituent on each of the amino and guanidino groups in arginine and optionally having a substituent on the carboxyl group in arginine~~ a compound represented by the general formula [II'] or a salt thereof:

[Formula 5]



wherein R<sup>1</sup>, R<sup>2</sup> and R<sup>3</sup> each independently represent a hydrogen atom or an alkyl group having 1 to 3 carbon atoms, provided that at least one of R<sup>1</sup>, R<sup>2</sup> and R<sup>3</sup> does not represent a hydrogen atom; R<sup>41'</sup> represents a group represented by R<sup>401'</sup>CO- where R<sup>401'</sup> represents a hydrogen atom, a hydrocarbon group which optionally has a substituent or a heterocyclic group which optionally has a substituent, or a group represented by R<sup>402</sup>S(O)<sub>m</sub> where R<sup>402</sup> represents a hydrogen atom, a hydrocarbon group which optionally has a substituent or a heterocyclic group which optionally has a substituent, and m is an integer of 1 or 2; R<sup>42</sup> represents a hydrogen atom or an alkyl group having 1 to 3 carbon atoms; and R<sup>5</sup> represents a carboxyl group which optionally has a substituent.

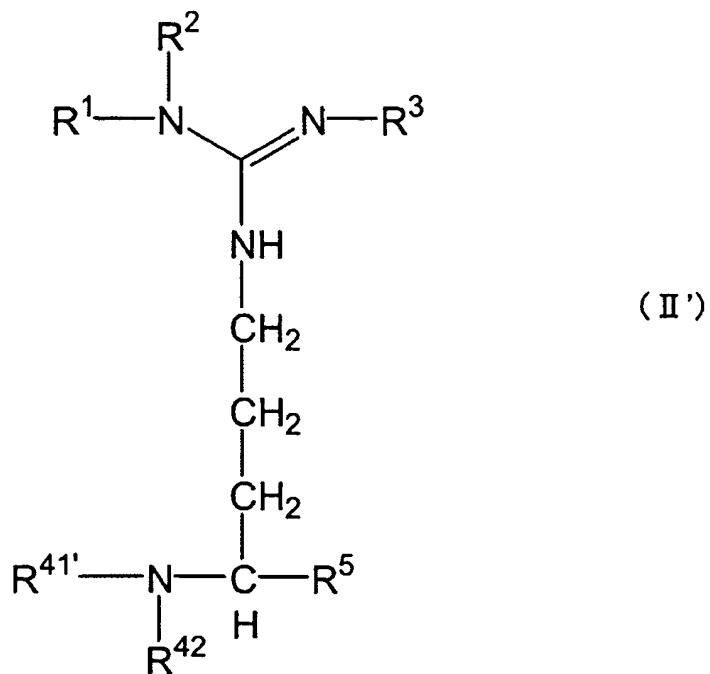
Claim 9 (cancelled).

Claim 10 (current amended): The peptidylarginine deiminase 4 inhibitor according to ~~any one of Claims 6 to 9~~ Claim 8, which is used for the prevention and/or treatment of diseases associated with peptidylarginine deiminases.

Claim 11 (original): The peptidylarginine deiminase 4 inhibitor according to Claim 10, wherein the diseases associated with peptidylarginine deiminase are selected from the group consisting of rheumatoid arthritis, psoriasis, and multiple sclerosis.

Claim 12 (new): A method of manufacturing a peptidylarginine deiminase 4 inhibitor, as the active ingredient, which is represented by the general formula [II'] or a salt thereof:

[Formula 5]



comprising:

providing independently for R<sup>1</sup>, R<sup>2</sup> and R<sup>3</sup> a hydrogen atom or an alkyl group having 1 to 3 carbon atoms, such that at least one of R<sup>1</sup>, R<sup>2</sup> and R<sup>3</sup> does not represent a hydrogen atom;

providing for R<sup>41'</sup> a group represented by R<sup>401'</sup>CO- where R<sup>401'</sup> represents a hydrogen atom, a hydrocarbon group which optionally has a substituent or a heterocyclic group which optionally has a substituent, or a group represented by R<sup>402</sup>S(O)<sub>m</sub>- where R<sup>402</sup> represents a hydrogen atom, a hydrocarbon group which optionally has a substituent or a heterocyclic group which optionally has a substituent, and m is an integer of 1 or 2;

providing for R<sup>42</sup> a hydrogen atom or an alkyl group having 1 to 3 carbon atoms; and

providing for R<sup>5</sup> a carboxyl group which optionally has a substituent.

Claim 13 (new): A method of treatment with the peptidylarginine deiminase 4 inhibitor according to Claim 8, comprising:

administering the peptidylarginine deiminase 4 inhibitor to prevent and/or treat diseases associated with peptidylarginine deiminases.

Claim 14 (new): A method of treatment with the peptidylarginine deiminase 4 inhibitor according to Claim 13, wherein the diseases associated with peptidylarginine deiminase are selected from the group consisting of rheumatoid arthritis, psoriasis, and multiple sclerosis.

Claim 15 (new): A method of treatment with the compound or a salt thereof according to Claim 1, comprising:

administering the compound or a salt thereof to prevent and/or treat diseases associated with peptidylarginine deiminases.

Claim 16 (new): A method of treatment according to Claim 15, wherein the diseases associated with peptidylarginine deiminase are selected from the group consisting of rheumatoid arthritis, psoriasis, and multiple sclerosis